

## 4.4b Modeling and Optimization

## Designing a can

You have been asked to design a one-liter oil can shaped like a right-circular cylinder. What dimensions will use the least material?

Oct 20-5:44 PM

A cylindrical can holds a fixed volume. Find the ratio of height to radius for the can with least surface area.

Oct 20-10:17 PM

A cylinder is inscribed in a cone of height 10 and radius 5. Find the volume of the largest cone.

Oct 20-10:21 PM